

PRODUCTION OF LIQUID CRYSTAL DISPLAY ELEMENT

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Inventor(s): SHINSENJI SATORU; NAITOU ATSUMASA; MATSUKAWA HIDEKI
Applicant(s): MATSUSHITA ELECTRIC IND CO LTD
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Abstract

PROBLEM TO BE SOLVED: To provide a process for producing a liquid crystal display element capable of producing the liquid crystal display element having high display uniformity in spite of use of such liquid crystals that are deteriorated and decomposed by UV rays at the time of producing the liquid crystal display element by using a liquid crystal dropping method and liquid crystal injection method.
SOLUTION: A UV curing sealing material 3 is first formed to prescribed patterns on a first electrode substrate 1. The liquid crystals 4 are then dropped to the region enclosed by the sealing material 3 of the first electrode substrate 1 and spacers 5 for controlling a gap are sprayed on a second electrode substrate 2 facing the first electrode substrate 1. A color filter 14 covered with a transparent protective layer 15 on its surface is formed on the second electrode substrate 2 so as to exist on the surface on the inner side of the sealing the 3. The first and second electrode substrates 1 and 2 are then stuck to each other in vacuum to form the entire part of substrate 9. Finally the stuck entire part of substrate 9 is irradiated with the UV rays of a UV lamp 8 via a mask 6 having the prescribed patterns to allow the transmission of light and the second electrode substrate 2.

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